

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14539-006002	Application No. 10/625,105
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Takashi Tsuji et al.	
		Filing Date July 22, 2003	Group Art Unit 1644
(37 CFR §1.98(b))		07/22/2003	

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
IO	AA	5,506,126	4/9/1996	Seed et al.			
	AB	5,521,288	5/28/1996	Linsley et al.			
	AC	6,075,181	6/13/2000	Kucherlapati et al.			
	AD	2002/0156242	10/24/2002	Tamatani et al.			

Foreign Patent Documents or Published Foreign Patent Applications									
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation		
							Yes	No	
	AE	WO 98/11909	03/26/1998	WIPO					
	AF	WO 98/38216	09/03/1998	WIPO					
	AG	WO 99/15553	04/01/1999	WIPO					
	AH	WO 00/19988	04/13/2000	WIPO					
	AI	WO 00/46240	08/10/2000	WIPO					
	AJ	WO 00/67788	11/16/2000	WIPO					
	AK	WO 01/08700	02/08/2001	WIPO					
	AL	WO 01/12658	02/22/2001	WIPO					
	AM	WO 01/15732	03/08/2001	WIPO					
	AN	WO 01/18022	03/15/2001	WIPO					
	AO	WO 01/21796	03/29/2001	WIPO					
	AP	WO 01/32675	05/10/2001	WIPO					
	AQ	WO 01/64704	09/07/2001	WIPO					
	AR	WO 01/87981	11/22/2001	WIPO					
	AS	WO 02/44364	06/06/2002	WIPO					
	AT	WO 02/70010	09/12/2002	WIPO					
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	AV	AU 13320/99	04/12/1999	AU					
	AW	DE 19821060	04/15/1999	DE					
IO	AX	EP 0984023 A1	03/08/2000	EP					

Examiner Signature <i>John A. Oresenski</i>	Date Considered 11/07/2005
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JO	AY	EP 1 125 585 A1	08/22/2001	EP				

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	AZ	Aicher et al., "Characterization of Human Inducible Costimulator Ligand Expression and Function," J. IMMUNOL., 164(9):4689-4696 (2000)
	AAA	Bajorath, "A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors," J. MOL. MODEL 5:169-176 (1999)
	ABB	Beier et al., "Induction, binding specificity and function of human ICOS," EUR. J. IMMUNOL., 30(12):3707-3717 (2000)
	ACC	Brodie et al., "LICOS, a primordial costimulatory ligand?," CURR. BIOL., 10(6):333-336 (2000)
	ADD	Buonfiglio et al., "Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas," EUR. J. IMMUNOL., 29(9):2863-2874 (1999)
	AEE	Buonfiglio et al., "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," EUR. J. IMMUNOL. 30(12):3463-3467 (2000)
	AFF	Cameron "Recent advances in transgenic technology" MOLECULAR BIOTECHNOLOGY 7:253-65 (1997)
	AGG	Chambers, "The expanding world of co-stimulation: the two-signal model revisited," TRENDS IN IMMUNOLOGY, 22(4):217-223 (2001)
	AHH	Cocks et al., "A novel receptor involved in T-cell activation," NATURE, 376:260-263 (1995)
	AII	Coyle et al., "The CD28-Related Molecule ICOS Is Required for Effective T Cell-Dependent Immune Responses," IMMUNITY 13(1):95-105 (2000)
	AJJ	Dong et al., "Cutting Edge: Critical Role of Inducible Costimulator in Germinal Center Reactions," J. IMMUNOL., 166(6):3659-3662 (2001)
	AKK	Dong, "ICOS co-stimulatory receptor is essential for T-cell activation and function," NATURE 409(6816):97-101 (2001)
	ALL	Gonzalo et al., "Cutting Edge: The Related Molecules CD28 and Inducible Costimulator Deliver Both Unique and Complementary Signals Required for Optimal T Cell Activation," J. IMMUNOL., 166(1):1-5 (2001)
	AMM	Guo et al., "Stimulatory Effects of B7-Related Protein-1 on Cellular and Humoral Immune Responses in Mice," J. IMMUNOL., 166(9):5578-5584 (2001)
	ANN	Hanzawa et al., "Characteristics of a TTH1 antibody which blocks an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-13 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
JO	AOO	Heyeck et al., "Developmental regulation of a murine T-cell-specific tyrosine kinase gene, Tsk," PROC. NATL. ACAD. SCI. USA, 90:669-673 (1993)

Examiner Signature <i>Ilia Aspenski</i>	Date Considered 11/07/2005
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	AQQ	Hutloff et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," NATURE, 397(6716):263-266 (1999)
	ARR	Ishikawa et al., "Prediction of the Coding Sequences of Unidentified Human Genes. X. The Complete Sequences of 100 New cDNA Clones from Brain Which Can Code for Large Proteins <i>in vitro</i> ," DNA RESEARCH, 5:169-176 (1998)
	ASS	Kappel et al. "Regulating gene expression in transgenic animals" CURRENT OPINION IN BIOTECHNOLOGY 3:548-53 (1992)
	ATT	Kopf et al., "Inducible Costimulator Protein (ICOS) Controls T Helper Cell Subset Polarization after Virus and Parasite Infection," J. EXP. MED., 192(1):53-61 (2000)
	AUU	Kuchroo et al., "B7-1 and B7-2 costimulatory molecules activate differentially the Th1/Th2 developmental pathways: Application to autoimmune disease therapy," CELL, 80:707-718 (1995)
	AVV	Ling et al., "Cutting Edge: Identification of GL50, a Novel B7-Like Protein That Functionally Binds to ICOS Receptor," J. IMMUNOL., 164(4):1653-1657 (2000)
	AWW	Mages et al., "Molecular cloning and characterization of murine ICOS and identification of B7h as ICOS ligand," EUR. J. IMMUNOL., 30(4):1040-1047 (2000)
	AXX	Marguet et al., "cDNA Cloning for Mouse Thymocyte-activating Molecule," THE JOURNAL OF BIOLOGICAL CHEMISTRY, 267(4):2200-2208 (1992)
	AYY	McAdam et al. (2000) "Mouse inducible costimulatory (ICOS) molecule expression is increased by CD28 costimulation and regulates development of Th2 cells," FASEB JOURNAL, 14(6):A1169
	AZZ	McAdam, "ICOS is critical for CD40-mediated antibody class switching," NATURE 409(6816):102-105 (2001)
	AAAA	McAdam, "Mouse Inducible Costimulatory Molecule (ICOS) Expression Is Enhanced by CD28 Costimulation and Regulates Differentiation of CD4 ⁺ T Cells," J. IMMUNOL., 165(9):5035-5040 (2000)
	ABBB	Mueller, "T cells: A proliferation of costimulatory molecules," CURR. BIOL. 10(6):R227-R230 (2000)
	ACCC	Mullins et al. "Expression of the DBA/2J Ren-2 gene in the adrenal gland of transgenic mice" EMBO J., 8:4065-72 (1989)
	ADDD	Mullins et al. "Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene" NATURE, 344:541-44 (1990)
	AEEE	Mullins et al. "Transgenesis in nonmurine species" Hypertension 22:630-33 (1993)
	AFFF	Niemann "Transgenic farm animals get off the ground" TRANSGENIC RESEARCH, 7:73-75 (1998)
	AGGG	Nojima et al., "The 4F9 antigen is a member of the tetra spans transmembrane protein family and functions as an accessory molecule in T cell activation and adhesion," CELLULAR IMMUNOLOGY, 152:249-260 (1993)
	AHHH	Overbeek "Factors affecting transgenic animal production," Transgenic Animal Technology, A Laboratory Handbook 96-98 (1994)
JO	AIII	Özkaynak et al., "Importance of ICOS-B7RP-1 costimulation in acute and chronic allograft rejection," NATURE IMMUNOLOGY 2(7):591-596 (2001)

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	AKKK	Redoglia et al., "Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor," EUR. J. IMMUNOL., 26(11):2781-2789 (1996)	
	ALLL	Riley et al., "ICOS Costimulation Requires IL-2 and Can Be Presented by CTLA-4 Engagement," J. IMMUNOL., 166(8):4943-4948 (2001)	
	AMMM	Robert et al., "Antibody Cross-Linking of the Thymocyte-Specific Cell Surface Molecule CTX Causes Abnormal Mitosis and Multinucleation of Tumor Cells," EXPERIMENTAL CELL RESEARCH, 235:227-237 (1997)	
	ANNN	Sato et al. (2000) "Up-regulation of inducible co-stimulator (ICOS) expression and its regulation of cytokine production in inflammatory bowel disease," Gastroenterology, 118(4):A662	
	AOOO	Sharpe, "Analysis of lymphocyte costimulation <i>in vivo</i> using transgenic and 'knockout' mice," CURRENT OPINION IN IMMUNOLOGY, 7:389-395 (1995)	
	APPP	Sigmund "Are studies in genetically altered mice out of control?" ARTERIOSCLER. THROMB. VASC. BIOL., 20:1425-29 (2000)	
	AQQQ	Swallow et al., "B7h, a Novel Costimulatory Homolog of B7.1 and B7.2, Is Induced by TNF α ," IMMUNITY, 11(4):423-432 (1999)	
	ARRR	Tafari et al., "ICOS is essential for effective T-helper-cell responses," NATURE 409(6816):105-109 (2001)	
	ASSS	Tai et al., "A role for CD9 molecules in T cell activation," J. EXP. MED., 184:753-758 (1996)	
	ATTT	Tamatani et al., "AILIM/ICOS: a novel lymphocyte adhesion molecule," INTERNATIONAL IMMUNOLOGY, 12(1):51-55 (2000)	
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	AVVV	Tezuka et al., "Genetic cloning of a lymphocyte surface signal transduction molecule which induces an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-14 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]	
	AWWW	Tezuka et al., "Identification and Characterization of Rat AILIM/ICOS, a Novel T-Cell Costimulatory Molecule, Related to the CD28/CTLA4 Family," BIOCHEM. BIOPHYS. RES. COMMUN., 276(1):335-345 (2000)	
	AXXX	Wall "Transgenic livestock: progress and prospects for the future" THERIOGENOLOGY 45:57-68 (1996)	
	AYYY	Wang et al., "Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS," BLOOD, 96(8):2808-2813 (2000)	
	AZZZ	Yoshinaga et al., "Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS," INTERNATIONAL IMMUNOLOGY, 12(10):1439-1447 (2000)	
IO	AAAAA	Yoshinaga et al., "T-cell co-stimulation through B7RP-1 and ICOS," NATURE, 402(6763):827-832 (1999)	

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	AF	20020115831	08/22/2002	Tamatani et al.			
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	AH	20020177191	11/28/2002	Kroccek			
	AI	20020182667	12/05/2002	Kroccek			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	WO 95/33770	12/14/1995	WIPO				
	AK	WO 97/26912	07/31/1997	WIPO				
	AL	WO 98/19706	05/14/1998	WIPO				
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	AP	JP 11-228442	08/24/1999	Japan			Abstract	
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	AR	Abbas, "T-cell stimulation: an abundance of B7s," NAT MED. 5(12):1345-6 (1999)
	AS	Bensimon et al., "Human lupus anti-DNA autoantibodies undergo essentially primary V kappa gene rearrangements," EMBO J. 13(13):2951-62 (1994)
	AT	Campbell et al., "Separable effector T cell populations specialized for B cell help or tissue inflammation," NAT IMMUNOL. 2(9):876-81 (2001)
<u>JO</u>	AU	Chapoval et al., "B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production," NAT IMMUNOL. 2(3):269-74 (2001)

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JO	AV	Dong et al., "B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion," NAT. MED. 5(12):1365-9 (1999)
	AW	Eljaschewitsch et al., "Identification of a novel activation antigen on human CD4+ T cells," IMMUNOBIOLOG., 194(1-3):27 (1995)
	AX	Goding, "Monoclonal Antibodies: Principles and Practice," 2 nd Edition, Academic Press, Orlando, Florida, Chapter 8, pages 281-293 (1986)
	AY	Goni et al., "Structural and idiotype characterization of the L chains of human IgM autoantibodies with different specificities," J. Immunol. 142(9):3158-63 (1989)
	AZ	Gonzalo et al., "ICOS is critical for T helper cell-mediated lung mucosal inflammatory responses," NAT IMMUNOL. 2(7):597-604 (2001)
	AAA	Harlow and Lane, "Antibodies: A Laboratory Manual," Cold Spring Harbor Laboratory, page 285 (1988)
	ABB	Hutloff et al., "Identification and initial characterization of a novel T cell-specific cell surface activation antigen," IMMUNOBIOLOG., 197(2-4):172 (1997)
	ACC	Ihara et al., "Association studies of CTLA-4, CD28, and ICOS gene polymorphisms with type 1 diabetes in the Japanese population," IMMUNOGENETICS 53(6):447-54 (2001)
	ADD	Iiyama et al., "The role of inducible co-stimulator (ICOS)/B7-related protein-1 (B7RP-1) interaction in the functional development of Peyer's patches," IMMUNOLOGY LETTERS, In Press Uncorrected Proof available online April 11, 2003, http://www.sciencedirect.com/science/journal/01652478
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	AFF	Ling et al., "Assembly and annotation of human chromosome 2q33 sequence containing the CD28, CTLA4, and ICOS gene cluster: analysis by computational, comparative, and microarray approaches," GENOMICS 78(3):155-68 (2001)
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	AHH	Linsley, "T cell activation: you can't get good help," Nat Immunol. 2(2):139-40 (2001)
	AII	Liu et al. "B7H costimulates clonal expansion of, and cognate destruction of tumor cells by, CD8(+) T lymphocytes in vivo," J EXP MED. 194(9):1339-48 (2001)
	AJJ	Lucia et al., "Expression of the novel T cell activation molecule hpH4 in HIV-infected patients: Correlation with disease status", AIDS RESEARCH AND HUMAN RETROVIRUSES 16(6):549-557 (2000)
	AKK	Mackay et al., "Follicular homing T helper (Th) cells and the Th1/Th2 paradigm," J EXP MED. 192(11):F31-4 (2000)
	ALL	Nurieva et al., "Inducible costimulator is essential for collagen-induced arthritis," J. CLIN. INVEST. 111(5):701-06 (2003)
	AMM	Ogawa et al., "Opposing effects of anti-activation-inducible lymphocyte-immunomodulatory molecule/inducible costimulator antibody on the development of acute versus chronic graft-versus-host disease," J IMMUNOL. 167(10):5741-8 (2001)
	ANN	O'Neill, "Co-stimulating allergy," TRENDS IMMUNOL. 22(4):183 (2001)
	AOO	Pech et al., "A large section of the gene locus encoding human immunoglobulin variable regions of the kappa type is duplicated," J. Mol Biol. 183(3):291-9 (1985)
	APP	Pound, "A new T-helper cell subset?" Trends Immunol. 22(4):182-3 (2001)
	AQQ	Richter et al., "Tumor necrosis factor- α regulates the expression of inducible costimulator receptor ligand on CD34+ progenitor cells during differentiation into antigen presenting cells," J. OF BIOLOGICAL CHEM. 276(49):45686-45693 (2001)

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<i>Lia Ouspenski</i>	11/07/2005
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JO	ARR	Rottman et al., "The costimulatory molecule ICOS plays an important role in the immunopathogenesis of EAE," NAT IMMUNOL. 2(7):605-11 (2001)
	ASS	Sakamoto et al., "AILIM/ICOS: its expression and functional analysis with monoclonal antibodies," HYBRIDOMA AND HYBRIDOMICS, 20(5):293-303 (2001)
	ATT	Schwartz, "Immunology. It takes more than two to tango," NATURE 409(6816):31-2 (2001)
	AUU	Sperling et al., "ICOS costimulation: It's not just for TH2 cells anymore," NAT IMMUNOL. 2(7):573-4 (2001)
	AVV	Sperling, "ICOS costimulation: is it the key to selective immunotherapy?," CLIN IMMUNOL. 100(3):261-2 (2001)
	AWW	Sporici et al., "ICOS ligand costimulation is required for T-cell encephalitogenicity," CLIN IMMUNOL. 100(3):277-88 (2001)
	AXX	Sporici et al., "Costimulation of memory T-cells by ICOS: a potential therapeutic target for autoimmunity?" CLIN IMMUNOL. 100(3):263-9 (2001)
	AYY	Tamura et al., "B7-H1 costimulation preferentially enhances CD28-independent T-helper cell function," BLOOD 97(6):1809-16 (2001)
	AZZ	Tesciuba et al., "Inducible costimulator regulates Th2-mediated inflammation, but not Th2 differentiation, in a model of allergic airway disease," J IMMUNOL. 167(4):1996-2003 (2001)
	AAAA	Tomlinson et al., "The repertoire of human germline VH sequences reveals about fifty groups of VH segments with different hypervariable loops," J. Mol. Biol. 227(3):776-98 (1992)
JO	ABBB	Wallin et al., "Enhancement of CD8+ T cell responses by ICOS/B7h costimulation," J IMMUNOL. 167(1):132-9 (2001)

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JO	AA	6,451,305	09/17/2002	Boussiotis et al.			

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							Yes	No
JO	AB	2,293,666	12/17/1998	Canada				

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JO	AA	WO 89/06138 (English language equivalent of RU 2047177)	07/13/1989	WIPO				
JO	AB	WO 94/11499	05/26/1994	WIPO				

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Ilia Anisovich

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